

# Comparisons of Job Characteristics

**Focus Occupation:** [Patternmakers, Metal and Plastic \(51-4062\)](#)

**Associated Occupation:** [Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic \(51-4012\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 97

**Focus Occupation:** Patternmakers, Metal and Plastic (51-4062)

**Associated Occupation:** Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mathematics	9.2	17.4	14.2	< Expanded education and/or training may be required
Mechanical	6.8	15.5	16.3	0 Current knowledge level may be sufficient
Design	5.2	13.8	14.4	0 Current knowledge level may be sufficient
Engineering and Technology	5.7	13.5	13.0	0 Current knowledge level may be sufficient
Production and Processing	6.0	10.5	10.6	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 38

**Focus Occupation:** Patternmakers, Metal and Plastic (51-4062)

**Associated Occupation:** Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Programming	2.2	14.0	2.1	<< Extensive development of skills in this area may be required
Operation Monitoring	6.6	11.1	9.5	< A higher skill level may be required
Mathematics	6.2	10.3	5.8	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	7.0	4.4	<< Extensive development of skills in this area may be required
Technology Design	2.6	5.5	4.6	< A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 79			
Focus Occupation: Patternmakers, Metal and Plastic (51-4062)					
Associated Occupation: Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Perceptual Speed	7.4	11.4	7.3	<<	Extensive improvement in abilities may be required
Visualization	7.5	11.2	10.2	0	Current ability level may be sufficient
Mathematical Reasoning	6.3	10.8	3.7	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	10.5	8.4	<	Some improvement in abilities may be required
Reaction Time	4.8	9.7	7.5	<	Some improvement in abilities may be required
Auditory Attention	5.9	9.1	6.6	<<	Extensive improvement in abilities may be required
Rate Control	3.8	7.2	6.8	0	Current ability level may be sufficient
Wrist-Finger Speed	3.2	5.9	4.6	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 89
<b>Focus Occupation: Patternmakers, Metal and Plastic (51-4062)</b> <b>Associated Occupation: Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)</b>		
Work Activities	Exclusivity of Activity	
Determine tasks needed to complete machined products	87	
Lay out machining, welding or precision assembly projects	63	
Read blueprints	10	
Read technical drawings	7	
Solve machine tool problems	89	
Understand technical operating, service or repair manuals	6	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Patternmakers, Metal and Plastic (51-4062)**

**Associated Occupation: Computer Numerically Controlled Machine Tool Programmers, Metal and Plastic (51-4012)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.